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Application No.	Applicant(s)	
09/772,498	WOLF ET AL.	
Examiner	Art Unit	
Harry Vartanian	2634	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
2. The allowed claim(s) is/are <u>1-14</u> .		
3. The drawings filed on <u>25 June 2001</u> are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
6. ⊠ Interview Sun Paper No./M 8), 7. ⊠ Examiner's A	nmary (PTO-413), lail Date mendment/Comment tatement of Reasons for Allo	, and the second
	Examiner Harry Vartanian ars on the cover sheet with (OR REMAINS) CLOSED in to or other appropriate communication is sure and MPEP 1308. Kaminer. der 35 U.S.C. § 119(a)-(d) or been received. been received in Application cuments have been received in ENT of this application. Itted. Note the attached EXAM is reason(s) why the oath or compared to the submitted. The submitted is Amendment / Comment or in the header according to 37 CFR (sit of BIOLOGICAL MATER FOR THE DEPOSIT OF BIOLE Stammer's A (sit of EXAM EXAMENT OF THE DEPOSIT OF BIOLE Stammer's A (sit of Examiner's A (sit of Examiner	Examiner Harry Vartanian 2634 ars on the cover sheet with the correspondence addr (OR REMAINS) CLOSED in this application. If not include or other appropriate communication will be mailed in due GHTS. This application is subject to withdrawal from issuland MPEP 1308. Additional or the cover sheet with the correspondence addr (OR REMAINS) CLOSED in this application. If not include or other appropriate communication will be mailed in due GHTS. This application is subject to withdrawal from issuland MPEP 1308. Additional or the cover sheet with the correspondence addr (OR REMAINS) CLOSED in this application will be mailed in due GHTS. This application is subject to withdrawal from issuland MPEP 1308. Additional or the correspondence addr (OR This application to file a reply complying with the reserved in this national stage application of this application. It do Note the attached EXAMINER'S AMENDMENT or Note that the submitted. The second of this application is deficient. It is to esubmitted. Amendment / Comment or in the Office action of the leader according to 37 CFR 1.121(d). Amendment / Comment or in the drawings in the front (not the leader according to 37 CFR 1.121(d). Bit of BIOLOGICAL MATERIAL must be submitted. It is of BIOLOGICAL MATERIAL. 5. Notice of Informal Patent Application (PTM 6. Interview Summary (PTO-413), Paper No./Mail Date 7. Examiner's Amendment/Comment 8. Examiner's Statement of Reasons for Allowed Statement of Reaso

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR
 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Jay Cantor(Reg #19,906) on 01/6/2005.

The application has been amended as follows:

In Claim 1, Lines 3-4 please change the following:

executing said adaptive abort criterion utilizing division without said division by a variable by manipulating an abort criterion equation by replacing division by a variable with multiplication by a variable thereby simplifying hardware implementation.

In Claim 4, Lines 6-7 please change the following:

comparison algorithm being executed <u>utilizing division without said division by a variable by manipulating an abort criterion equation by replacing division by a variable with multiplication by a variable thereby simplifying hardware implementation; and</u>

In Claim 8, Lines 4-5 please change the following:

executing a comparison algorithm by manipulating an abort criterion equation by replacing division by a variable with multiplication by a variable thereby simplifying hardware implementation;

generating a quality attribute based on the estimates with division without said division by a variable;

In Claim 10, Line 2 please change the following:

implemented with division without said division by a variable.

In Claim 11, Line 9-10 please change the following:

wherein the steps (b), (c), (d), and (e) are implemented with division without said division by a variable.

In Claim 13, Line 10 please change the following:

implemented with division without said division by a variable.

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Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance: the prior art shows that turbo decoding is usually executed by taking the difference between a current estimate of a symbol and a prior estimate then comparing that value to a threshold value. Other methods were shown wherein a ratio may be compared to a threshold during each iteration of the turbo decoding process. However, the prior art failed to teach transforming or manipulating an equation of the ratio of the mean and variance as shown in the applicants specification, to exclude the division operation in order to simplify hardware implementation of the algorithm.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harry Vartanian whose telephone number is 571.272.3048. The examiner can normally be reached on 10:00-6:30 Mondays to Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571.272.3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Harry Vartanian Examiner Art Unit 2634

HV

STEPHEN CHIN
SUPERVISORY PATENT EXAMINE

TECHNOLOGY CENTER 2600